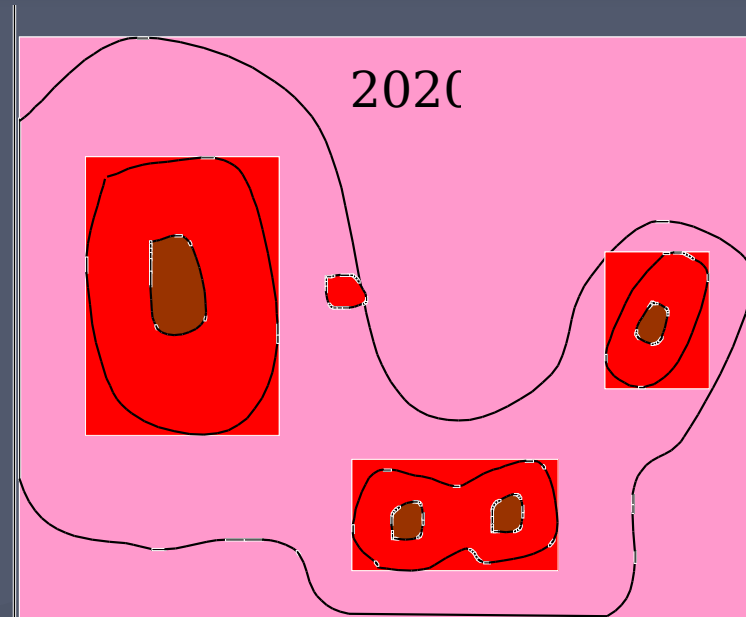
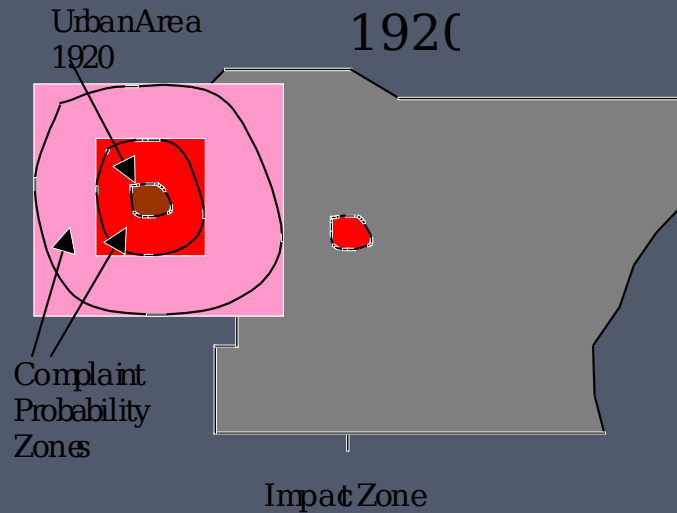


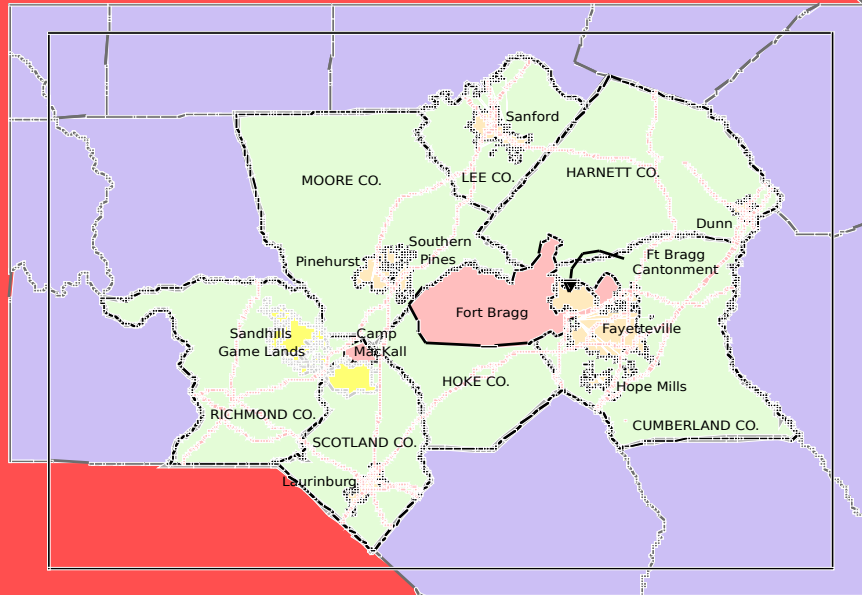
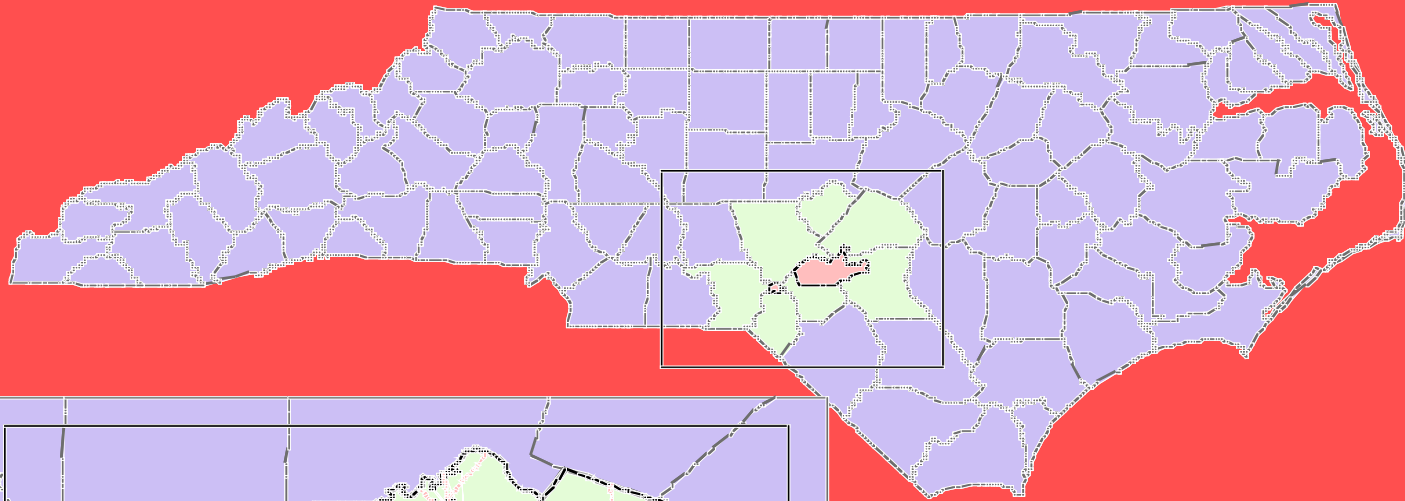
Notional Analysis of the Impact of a Proposed Road on the Future Training Opportunities

Concept

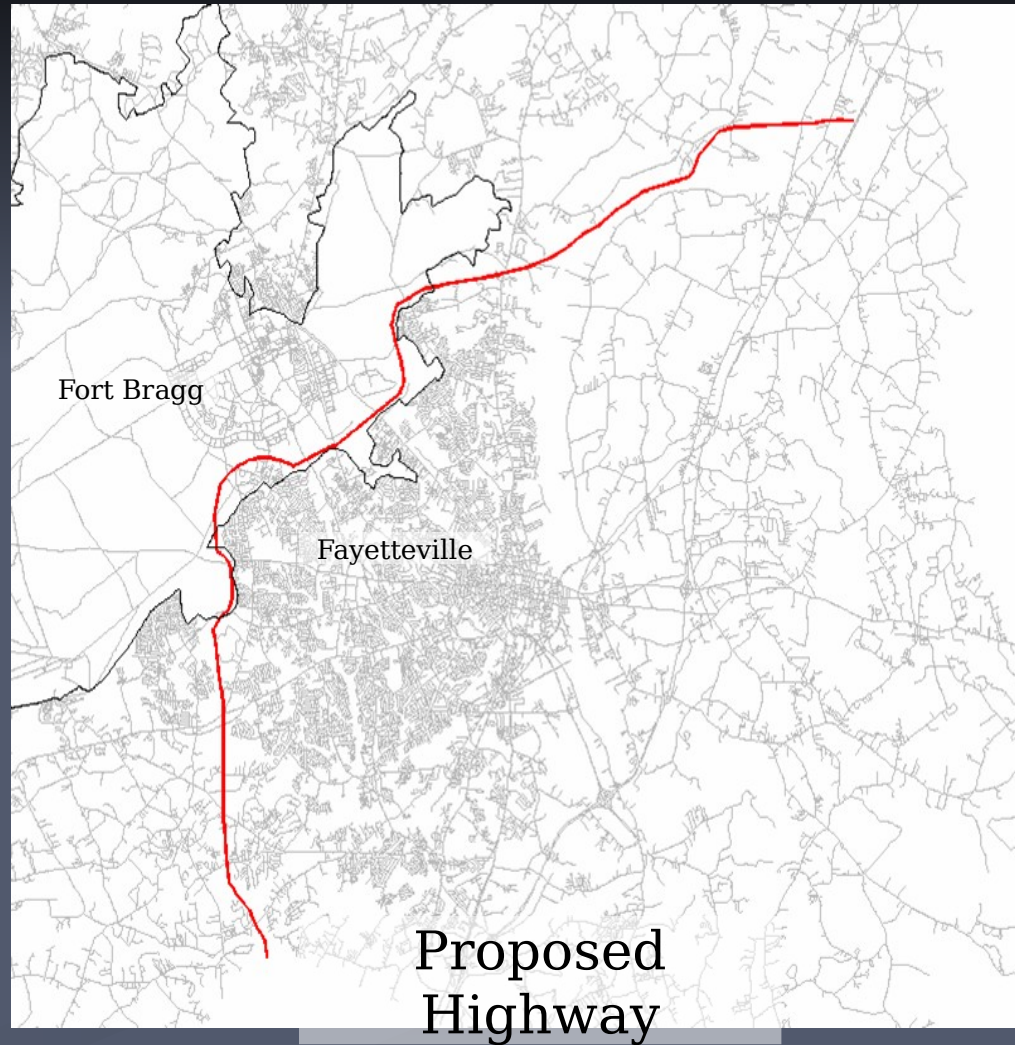
- Noise tolerance changes reflect loss of training opportunities



Fort Bragg, North Carolina



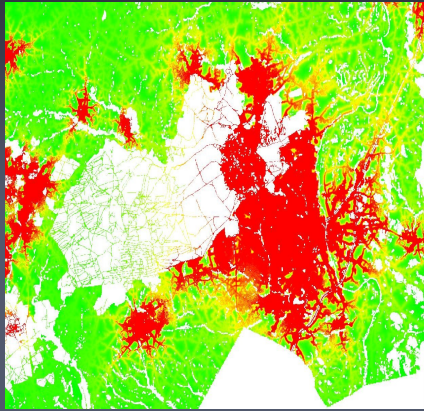
Current Road Network k



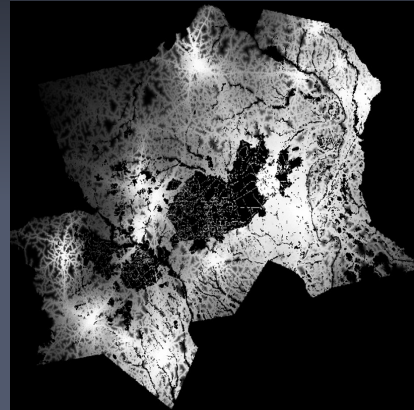
Process

- Run a regional residential development simulation - with and without road
- Identify urban annoyance from training/testing - with and without road
- Identify differences in results (next slide)

Intermediate Products



Driving time to the nearest city.

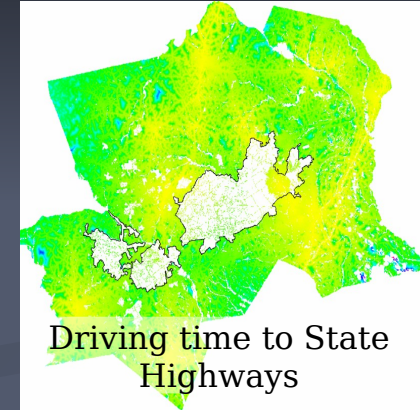


Attractiveness to employment is a major determinant of urban growth. It is a function of driving time and employment opportunities. The lighter areas are more attractive.



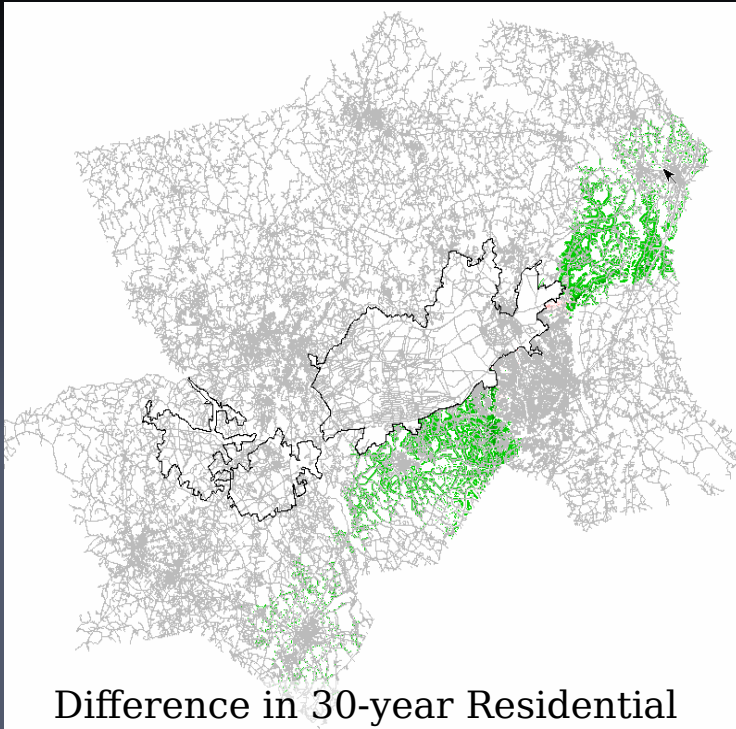
Driving time to Fort Bragg

Fort Bragg is the main employer in the region. This map shows driving time to the Bragg cantonment area.

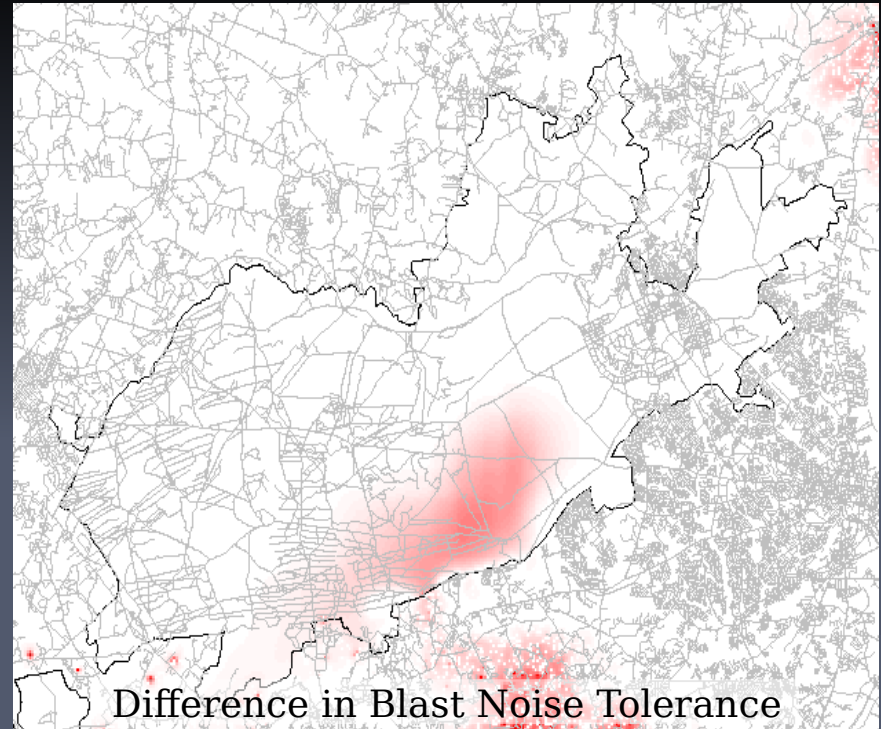


Driving time to State Highways

Another determinant is driving time to state highways. Once a highway is reached, access to stores is relatively easy.



Residential attractiveness and population projections are combined to generate urban growth patterns. This map shows the difference in patterns - with and without the highway. Green areas show “extra growth” due to the road.



Finally, preliminary analysis of noise tolerance suggests that the extra growth will decrease the tolerance of noise coming from the areas in red. The darkest red suggests a 5% increase in complaint probabilities.